CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.13/HCS/CSR-04/003a/CEMENT/2016-17 Date: 06.04.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer**, Shettyhalli Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. H.C. Umesh,** # 11, 2nd Cross, 2nd Main, Laggere, Bangalore - 58.
*NAME OF THE WORK	:	Maintenance of footpath in Ward No. 13, Shettyhalli Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/SSD/PR/71/2016-17 Dated: 04.04.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	04.04.2016
PERIOD OF TESTING	:	04.04.2016 to 06.04.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.50%	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	155 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	450 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Note:

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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AE-17

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Job No.: CTCE/BBMP/W.No.13/HCS/CSR-04/003a/SAND-Gradation/2016-17 : 06.04.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

* Agency : **Mr. H.C. Umesh,**
# 11, 2nd Cross, 2nd Main, Laggere, Bangalore - 58.

* Name of Work : Maintenance of footpath in Ward No. 13, Shettyhalli Sub Division, BBMP, Bangalore.

Reference : AEE/SSD/PR/71/2016-17 Dated: 04.04.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 04.04.2016

Date of Testing : 06.04.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	91.95	90-100	90-100	90-100	95-100
2.36	77.39	60-95	75-100	85-100	95-100
1.18	56.35	30-70	55-90	75-100	90-100
600 Micron	37.12	15-34	35-59	60-79	80-100
300 Micron	15.85	5-20	8-30	12-40	15-50
150 Micron	6.17	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

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Remarks : This sample is under Zone-II specific limits.

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6/4/16

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Job No.: CTCE/BBMP/W.No.13/HCS/CSR-04/003a/Kerb Stone/2016-17 11.04.2016

CEMENT CONCRETE CORE (PRECAST SLAB) TEST REPORT

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. H.C. Umesh,** # 11, 2nd Cross, 2nd Main, Laggere, Bangalore - 58.
* Name of work	:	Maintenance of footpath in Ward No. 13, Shettyhalli Sub Division, BBMP, Bangalore.
Reference	:	AEE/SSD/PR/71/2016-17 Dated: 04.04.2016
Techinical Reference	:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Sample ID	:	Precast Slab
Sample Received on	:	04.04.2016
Date of Testing	:	11.04.2016

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	75.00	0.369	2505.74	1.50	0.955	32.3	16.43	17.74	16.95	21.18
2	50.00	76.00	0.376	2519.67	1.52	0.965	32.4	16.52	17.84	17.21	21.52
3	50.00	77.00	0.382	2526.64	1.54	0.960	32.8	16.70	18.04	17.31	21.64

* Information is furnished by the Customer/Representative

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VISHWANATH .C
Quality Manager

AE-13
11/4/16
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.

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